PARVATI JAYAKUMAR

Data Scientist | Specializing in Data Analysis, ML, and Cloud-Tech across different domains

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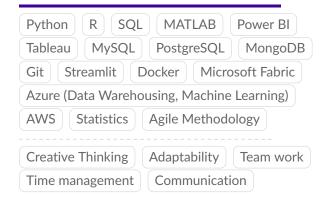
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Bengaluru, India

in parvati-jayakumar

parvatijay2901

SKILLS



EDUCATION

Master of Science (Data Science) University of Washington (GPA: 3.94/4)

2023 - 2025

Seattle, WA, USA

Bachelor of Technology (ECE) IIIT, Dharwad (GPA: 9.4/10)

2018 - 2022

Karnataka, India

SKILL BUILDING

Machine Learning Nanodegree **Udacity (Sponsored by Microsoft)**

Selected as one of 300 participants from over 36,500 applicants; hosted webinars and AMAs, published a technical magazine, and developed ML projects within the commu-

ACHIEVEMENTS

- President of India Gold Medal and Department Gold Medal for Academic Excellence (BTech, IIIT Dharwad)
- Publications:
 - TENCON 2022 IEEE Region 10 Conference: Contributed to developing a Hindi Spoken Conversational System (Automatic Speech Recognition (ASR) and Text To Speech (TTS)), to humanize robotic interactions.
 - BSN 2023 and arXiv: Researched acousticbased non-intrusive gait analysis for older adults, including developing a filter for robust detection in noisy indoor settings.
 - 2 in progress (MS, UW): Collaborated on a capstone project investigating Ventilator-Associated Pneumonia (VAP) pathogenspecific biomarker signatures and subphenotypes to improve clinical outcomes.

EXPERIENCE

Graduate Research Assistant

UW Scientific Software Engineering Center, eScience Institute

Sep 2024 - Jun 2025

Seattle, WA, US

- Integrated DeepEval into the **OLMo2** Retrieval-Augmented Generation (RAG) pipeline, achieving a test score rating of 8.3/10, ensuring reliability of search results in support of Vera C. Rubin Observatory research.
- Engineered a fully automated financial disclosure system using Apps Script and Power Automate, processing 100% of disclosures within 24 hours of opening for the UW Office of Research team.
- Pioneered the user interface development of a **Flutter app** for the Post-Disaster Communications project, enabling field teams to achieve faster data transmission speeds during emergencies.

Data Science Intern

Pearson Packaging Systems

i Jun 2024 - Sep 2024

Spokane, WA, US

- Engineered a Power BI dashboard for the Inventory Department that enabled reporting; helped in improving on-time delivery rates to 95% and cut material costs by 50%.
- Spearheaded the **Data Warehouse** pilot project, establishing a functional instance and creating a detailed Microsoft Fabric implementation plan that aims to reduce potential deployment delays by 25%.

Graduate Research Assistant **UW School of Medicine - Department of Otolaryngology-HNS**

Feb 2024 - Sep 2024

Seattle, WA, US

• Explored auditory perception across ages (infants/children) and environments using EEG, experimental design, and advanced MATLAB-based mTRF analyses for encoding/decoding, aiming to improve human communication understanding.

Clinical Data Scientist (R&D) **MiiCare**

Nov 2021 - Jun 2023

Remote (London, UK)

- Developed and maintained streamlined reports on health data for 300+ seniors and disabled individuals, enabling rapid, data-driven assessments for early detection of critical mental and physical health concerns.
- Led the development of MiiVoice, a voice-based mental health prediction system using speech processing and contributed to NLP projects, increasing customer engagement by 29% (2021 Dec - 2023 Jun).
- Developed a ML model to classify **Acoustic Gait patterns** using footstep sounds and achieved \leq **0.71%** relative error compared to IMU (Inertial Measurement Unit) and video-based systems (tested on 10 users).

Summer Intern Indian Institute of Science (IISc)

May 2019 - Jul 2019

Bengaluru, India

• Contributed to a facial recognition project, implementing a Facenet model in PyTorch, at the Department of Aerospace Engineering.